

**TI INVENTION / INNOVATION DISCLOSURE**1379
RDM

SEND COMPLETED FORM TO: TI CORPORATE PATENTS
ATTN: Tina Smith
E-Mail: tina-smith@ti.com
FAX: (972) 917-4418
Mail Station M/S 3999
PC Drop PPC-B

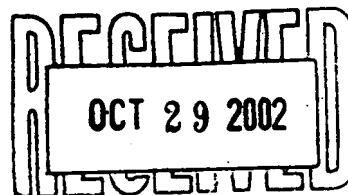
HELPLINE: Warren Franz
E-Mail: w-franz@ti.com
PHONE: (972) 917-5271
FAX: (972) 917-4418

If you are employed by a TI subsidiary company, send this form to your site coordinator.

To prepare your invention disclosure, follow the step-by-step directions on the form that follows. Type or print answers to the questions in the spaces provided.

**PLEASE PROVIDE ANSWERS TO ALL OF THE QUESTIONS
OTHERWISE THERE COULD BE DELAYS IN PROCESSING**

If you already have an engineering spec, please send it with your invention disclosure. Computer documentation and drawings, marketing foils, notebook entries, paper manuscripts, articles, and any other material that you already have can be copied or sent electronically.

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08/04/07

PATENT DISCLOSURE FORM

DOCKET NO. TI-(to be filled in by Patent Activity)

**IF ELECTRONICALLY TRANSMITTED, PROCESSING OF YOUR
DISCLOSURE CANNOT BE COMPLETED WITHOUT A
FOLLOW-UP COPY SIGNED AND DATED BY ALL INVENTORS
AND AT LEAST ONE WITNESS.**

1. Please suggest a descriptive title for your invention:

Autotimer Count-down Images for Digital Cameras

2. This invention supports strategy: (check 1 or more)

- | | | | |
|--------------------------|-------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> | DLP | <input type="checkbox"/> | DSPS |
| <input type="checkbox"/> | Materials | <input type="checkbox"/> | Wireless |
| <input type="checkbox"/> | Fab/Processes | <input type="checkbox"/> | Video |
| <input type="checkbox"/> | Assembly/Test/Packaging | <input type="checkbox"/> | Set Top |
| <input type="checkbox"/> | Other | <input type="checkbox"/> | Application Specific |
| | | <input type="checkbox"/> | Remote/Access/Networking |
| | | <input checked="" type="checkbox"/> | Emerging Markets |
| | | <input type="checkbox"/> | Mixed Signal & Logic |
| | | <input type="checkbox"/> | Mass Storage |
| | | <input type="checkbox"/> | Other |

3. What is the problem solved by your invention?

When using a camera's autotimer, it is usually difficult for the people in front of the lens to determine when exactly the image will be captured. Consequently, during the time between when the shutter-button is pressed and when the image is captured, people may become distracted or give an untimely blink at the instant the photo is captured.

4. What is your solution to the problem?

Digital cameras, especially those with a flip-around LCD display, contain the basic hardware to display a series of count-down images on the LCD. The count-down images, which in one implementation may display a sequence of numbers from 10 down to 1, will notify the photographic subjects exactly when the exposure will be captured. In another implementation, the count-down

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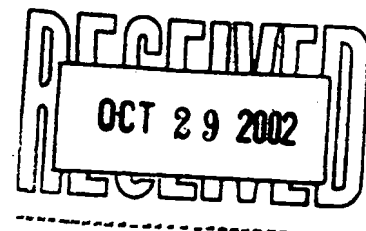
images may contain pictures that would likely cause the photographic subjects to laugh or smile at the appropriate moment when the exposure will be captured. In another implementation, the count-down image may be a short video clip. The images shown during the count-down can be programmed into the camera and stored within it's non-volatile memory for the purpose of being displayed during the count-down timer period.

5. When was your solution first conceptually or mentally complete?

Date: 10/25/2002

6. What is the first tangible evidence of such completion?

Date: 10/25/2002



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7. What is different about your solution, compared with other solutions to the same problem?

Although other solutions blink a light or strobe the flash before capturing the image, a visual countdown displayed on an LCD display would be more accurate and more interesting to the people in front of the lens.

8. What are the advantages of your solution?

This solution informs people of exactly when an image will be captured, thus increasing the likelihood that they will look their best as the image is captured.

9. What TI products, processes, projects or operations currently implement your invention?

none

10. What is the date of the first implementation?

Date:

11. What record exists to prove this date?

12. Is there any future implementation planned?

Yes ☐ No ☐

If so, please furnish the TI PART No. or project name

13. Has the invention been published or disclosed to anyone outside of TI?

Yes ☐ No ☒

When?

If planned - when? (Catalog, advertising, data book, application note, conference paper, magazine article, TI TJ, proposal document.)

Was there a nondisclosure agreement (NDA)?

Yes ☐ No ☐

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14. Has a TI product incorporating the invention been publicly introduced, quoted, sampled or shipped?

Yes ☐ No ☒

When? If planned--when?

15. Was the invention conceived or first implemented in the performance of a government contract or subcontract?

Yes ☐ No ☒

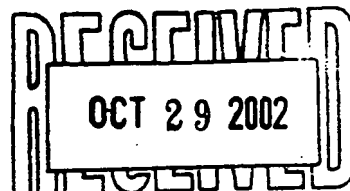
Contract #:

THE INVENTION DESCRIBED BY THIS DISCLOSURE IS SUBMITTED
PURSUANT TO MY EMPLOYMENT AGREEMENT WITH TEXAS INSTRUMENTS
INCORPORATED OR A TI SUBSIDIARY (SPECIFY):

Has this disclosure been previously sent to the Patent Department electronically (unsigned)?

Yes ☐ No ☒

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PLEASE PRINT ALL INVENTOR INFORMATION.

Inventor 1's Name: Robert Gregory DeMoor
(First, Middle, Last)

Home Address: 1711 Abell Field Lane, Sugar Land, TX, 77478
(Street, City, State, Zip)

E-Mail Address: r-demoor@ti.com

Employee #: A0321665

TI Division & Cost Center Div. 003, CC 01733

Phone #: 281-274-2247

Pager #: none

Country of Citizenship: U.S.A.

Inventor 1's Signature: Robert Gregory DeMoor 10/25/02

Date: 10/25/2002

Mail Station: 701

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Inventor 2's Name: none
(First, Middle, Last)

Home Address:
(Street, City, State, Zip)

E-Mail Address:

Employee #:

TI Division & Cost Center

Phone #:

Pager #:

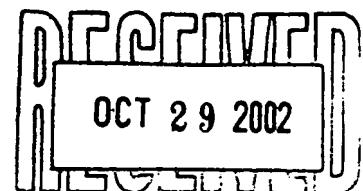
Country of Citizenship:

Inventor 2's Signature: _____

Date:

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Inventor 3's Name:

none
(First, Middle, Last)

Home Address:

(Street, City, State, Zip)

E-Mail Address:

Employee #:

TI Division & Cost Center

Phone #:

Pager #:

Country of Citizenship:

Inventor 3's Signature:

Date:

Mail Station:

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Home Address: _____
(Street, City, State, Zip)

E-Mail Address:

Employee #:

TI Division & Cost Center

Phone #:**Pager #:****Country of Citizenship:**

Inventor 4's Signature: _____

Date:**Mail Station:**[illegible]

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Date 10/28/02

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Witness 2:

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